

What is claimed is:

1 1. For use in an automotive anti-lock braking system, an electrical
2 connector for establishing a solderless connection between a solenoid wire coil and a
3 printed circuit board, the electrical connector comprising:

4 a coil bobbin having at least one stem extending from a first surface
5 thereof; and

6 a wire wound in a coil arrangement around the coil bobbin and having
7 a pre-tinned portion disposed over a distal end of the at least one stem.

1 2. An electrical connector, according to claim 1, wherein the pre-
2 tinned portion of the wire passes through a hole defined by the first surface of the coil
3 bobbin.

1 3. An electrical connector, according to claim 1, wherein the at
2 least one stem is formed from plastic.

1 4. An electrical connector, according to claim 1, further
2 comprising a secondary bobbin formed over the wire.

1 5. An electrical connector, according to claim 4, further
2 comprising a multi-lip wire seal formed over the secondary bobbin for sealing the
3 wire.

1 6. An electrical connector, according to claim 1, wherein the wire
2 is sealed using at least one of an O-ring and silica gel.

not
soon
adequately
fixed
on
Fig 1

112

7. For use in an automotive anti-lock braking system, an electrical connector for establishing a solderless connection between a solenoid wire coil and a printed circuit board, the electrical connector comprising:

a coil bobbin having a plurality of plastic stems extending from a first surface thereof;

a wire wound in a coil arrangement around the coil bobbin and having pre-tinned portions disposed over distal ends of each of the plurality of plastic stems;

a secondary bobbin formed over the wire; and

a multi-lip wire seal formed over the secondary bobbin for sealing the wire.